Page 9 has been corrected to insert the patent number of the application referred to near the bottom of the page. A clean copy of the page is in Exhibit B and a properly marked copy showing the change is Exhibit A.

At page 20, the word "dodecdyl", an obvious misspelling has been corrected to-dodecyl-. A clean corrected page is in Exhibit B hereto and a properly marked page showing the change is in Exhibit A hereto.

II. CLAIMS

Please amend each of Claims 22 - 34 inclusive, 36, 43, 45, 48, and 50 to read as follows:

- 22. A method of detecting the presence of a carbohydrate antigen characteristic of at least one species or serogroup of a species of bacteria in a fluid, which method comprises the following steps:
- (a) obtaining from a culture of a known species, or serogroup of a species of bacteria an essentially protein-free carbohydrate antigen;
- (b) coupling to a chromatographic affinity gel through a spacer molecule the essentially protein- free carbohydrate antigen obtained in step (a);
- (c) passing polyclonal antibodies to the same species, or serogroup of a species, of the bacteria referred to in step (a), or an Ig G cut of said antibodies over the chromatographic affinity gel from step (c) to produce purified antigen specific antibodies; and
- (d) conducting an assay upon a liquid sample suspected of containing the same species, or serogroup of a species of bacteria referred to in step (a), which assay comprises the step of detecting the crude carbohydrate antigen of said species or serogroup of a species of bacteria which is counterpart to the purified antigen of step (c), by contacting the liquid sample with a

detection agent which essentially comprises labeled purified antigen - specific antibodies from step (c) hereof, wherein the label may be any known detectable label, and detecting the presence of suspected antigen, if present by detecting a characteristic of the label known to be manifested upon reaction of the labeled antibodies with the suspected antigen.

- 23. The method of claim 22 in which the species or serogroup of a species of bacteria in step (a) are Gram negative and the crude antigen component thereof sought to be detected in step (d) is a lipopolycarbohydrate.
- 24. The method of claim 22 in which the species or serogroup of a species of bacteria are

 Gram positive bacteria and the crude antigen component thereof sought to be detected in step

 (d) is a lipoteichoic acid, a teichoic acid, or a derivative of either.
- 25. The method of claim 22 in which the species or serogroup of a species of bacteria are either Gram negative or Gram positive bacteria and the crude antigen component thereof sought to be detected in step (d) is a capsular polycarbohydrate antigen.
- 26. The method of claim 22 in which the spacer molecule of step (b) is a protein molecule.
- 27. The method of claim 22 wherein the liquid sample of step (d) is water.
- 28. The method of claim 22 wherein the liquid sample of step (d) is a natural fluid of mammalian origin.
- 29. The method of claim 28 wherein the liquid sample of step (d) is human urine.
- 30. The method of claim 28 wherein the liquid sample of step (d) is obtained from a patient exhibiting clinical signs of a disease known to be caused by the bacteria referred to in step (a).
- 31. The method of claim 22 in which step (d) is an immunoassay process.
- 32. The method of claim 31 in which step (d) is an immunochromatographic ("ICT")

immunoassay process.

- 33. The method of claim 32 in which the bacteria referred to in step (a) are Haemophilus influenzae type b bacteria and the crude antigen sought to be detected in step (d) is the capsular carbohydrate antigen of those bacteria.
- 34. The method of claim 22 in which step (d) is conducted by
- (A) contacting a liquid sample suspected of containing the species, or serogroup of a species, of bacteria referred to in step (a) of claim 22, or a crude carbohydrate antigen thereof that corresponds to the essentially protein free carbohydrate antigen obtained in step (a), with an ICT device comprising a strip of bibulous material, which strip has
- (i) a first zone in which has been deposited a movable conjugate of a labeling agent and purified antigen specific antibodies obtained in step (c) of claim 22, said labeling agent being selected from among those known to display a visible color change upon the formation of a labeled antibody antigen fixed antibody reaction product and
- (ii) a second zone having immovably bound thereto unconjugated purified antigen specific antibodies obtained in step (c) of claim 22, which zone is equipped with a window for viewing color changes,
- (B) allowing said liquid to flow laterally along said test strip to said first zone, where it picks up the movably deposited conjugate of label and purified antigen specific antibodies;
- (C) allowing said liquid sample and said conjugate of antigen specific antibodies and label to flow together laterally along said test strip to said second zone, and
- (D) within approximately 15 minutes after contacting the liquid sample with the test strip, observing through the aforementioned window whether a line of color indicating the presence

in the sample of the suspected bacteria species, or serogroup of a species, has formed.

36. The method of claim 34 in which the bacteria are Gram - negative bacteria and the crude antigen sought to be detected is a lipoteichoic acid, a teichoic acid, or a derivative of either.

- 43. An ICT device for the detection of a carbohydrate antigen characteristic of a species or serogroup of a species of bacteria, which comprises a strip of bibulous material having

 (a) a first zone in which has been movably deposited a conjugate of a labeling agent and purified antibodies specific to the crude carbohydrate antigen of the bacteria species, or serogroup of a species, suspected of being present in the liquid sample, and

 (b) a second zone having immovably bound thereto a portion of unconjugated, purified antibodies specific to the same crude carbohydrate antigen, which zone is equipped with a window for viewing color changes; which device is further characterized in that antigen specificity of the antibodies present in both zones has been attained by passing polyclonal antibodies to the bacteria species, or serogroup of a species, of which the crude carbohydrate antigen is characteristic over a chromatographic affinity column to which is coupled a spacer molecule conjugated to an essentially protein free carbohydrate antigen, which essentially protein free carbohydrate antigen was obtained from a culture of the bacteria species, or serogroup of a species of bacteria of which the crude carbohydrate antigen is characteristic.
- 45. The ICT device of claim 43 wherein the species or serogroup of a species of bacteria are Gram negative bacteria and the crude antigen to be detected is a lipoteichoic acid, a teichoic acid or a derivative of either.
- 48. A method for detecting a crude carbohydrate antigen characteristic of a bacteria species, or serogroup of a species, in a liquid sample which comprises the steps of

- (a) contacting said liquid sample with the strip of bibulous material of the ICT device of claim 43;
- (b) allowing said liquid sample to flow laterally along said liquid sample to flow laterally along said test strip to the first zone of said device where it picks up a movable deposit of a conjugate of labeling agent and purified antigen specific antibodies.
- (c) allowing said liquid sample and said conjugate to flow together laterally along said test strip to the second zone of said device; and
- (d) within approximately 15 minutes after contacting the liquid sample with the test strip, observing through the view window whether a line of color has appeared, indicating the presence in the test sample of the species, or serogroup of a species of bacteria, containing the crude carbohydrate antigen to which the purified antibodies are specific.
- 50. The method of claim 49 wherein the liquid sample is obtained from a human patient exhibiting clinical symptoms of a disease known to be caused by the bacteria species or serogroup of a species of which the crude antigen to be detected is characteristic.

Claims 35, 37-42, 44,46-47, 51 and 52 are retained in unamended form. Non-elected claims 1,2 and 12-14 are retained pending possible filing of a divisional application.

A copy of all amended claims showing deleted portions by brackets and inserted material by underlining is included as Exhibit C.

III. REMARKS

A. Drawings

A new set of drawings conforming to the rules is submitted herewith.